

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system for providing simulation of an integrated circuit during development of the integrated circuit, the integrated circuit having an island including an interface, the system comprising:

a snooper coupled with the interface for monitoring the interface and obtaining an output provided by the island during simulation;

a checker, coupled with the interface, for checking the output to determine whether the output is a desired output;

a generator coupled with the island for providing an input to the island during simulation;
and

at least one test case coupled with the generator and for directing the generator providing data and a request that the generator perform a particular simulation on the island without the test case including logic for directly controlling functions of the snooper, the generator and the checker;

wherein the checker further calculates the desired output based upon the input; and

wherein the generator further includes intelligence to provide the input to the island based only upon the data and [[a]]the request provided by the at least one test case to the generator, the request requesting that the generator perform a particular simulation on the island.

2. (Original) The system of claim 1 wherein the checker is coupled with the snooper and wherein the checker receives the output from the snooper.

3. (Original) The system of claim 1 wherein the snooper may be reused when the island is integrated with a second island.

4. (Original) The system of claim 1 wherein the checker may be reused when the island is integrated with a second island.

5. (Original) The system of claim 1 wherein the generator may be reused when the island is integrated with a second island.

6. (Original) The system of claim 1 wherein the generator receives the output and provides the input based on the output.

7. (Original) The system of claim 1 wherein the generator and the snooper are coupled with the interface, wherein the checker is coupled with the interface through the snooper and wherein only the snooper and the checker are reused when a second island is integrated with the island at the interface.

8. (Original) The system of claim 1 wherein the at least one test case further provides data and instructions to the generator.

9. (Original) The system of claim 1 wherein the interface is an internal interface.

10. (Currently Amended) A method for providing simulation of an integrated circuit during development of the integrated circuit, the integrated circuit having an island including an interface, the method comprising the steps of:

(a)—monitoring the interface to obtain an output provided by the island during simulation utilizing a snooper;

(b)—checking the output to determine whether the output is a desired output utilizing a checker, the checking step (b) further including the step of

(b1)—calculating the desired output based upon an input;

(c)—providing the input to the island during simulation using a generator; and

(d)—directing the providing of the input using at least one test case by providing data and a request that a generator perform a particular simulation on the island without the test case including logic for directly controlling functions of the generator, the snooper, and the checker;

wherein the input is provided to the island using ~~[[a]]the~~ generator including intelligence to provide the input to the island based only upon the data and ~~[[a]]the request provided by the at least one test case to the generator, the request requesting that the generator perform a particular simulation on the island.~~

11. (Currently Amended) The method of claim 10 wherein the monitoring step (a) further includes the step of:

(a1)—snooping the interface to obtain the output provided by the island during simulation using ~~[[a]]~~the snoopers, the snoopers capable of being reused when the island is integrated with a second island.

12. (Currently Amended) The method of claim 10 wherein the checking step ~~(b)~~ further includes the step of:

~~(b1)~~—checking the output using ~~[[a]]~~the checker to determine whether the output is the desired output, the checker capable of being reused when the island is integrated with a second island.

13. (Currently Amended) The method of claim 10 wherein the providing step ~~(c)~~ further includes the step of:

~~(c1)~~—providing the input to the island during simulation using ~~[[a]]~~the generator, the generator capable of being reused when the island is integrated with a second island.

14. (Currently Amended) The method of claim 10 wherein the providing step ~~(c)~~ further includes the step of:

~~(c1)~~—providing an input to the island during simulation using ~~[[a]]~~the generator, the generator receiving the output and providing the input based on the output.

15. (Currently Amended) The method of claim 14 wherein the directing step ~~(d)~~ further includes the step of:

~~(d1)~~—providing the data and instructions from the at least one test case to the generator.

16. (Original) The method of claim 10 wherein the interface is an internal interface.

17. (Currently Amended) A computer-readable medium having a program for providing simulation of an integrated circuit during development of the integrated circuit, the integrated circuit having an island including an interface, the program comprising instructions for:

(a)—monitoring the interface to obtain an output provided by the island during simulation using a snooper;

(b)—checking the output to determine whether the output is a desired output using a checker, the checking step (b) further including the step of

(b1)—calculating the desired output based upon an input;

(c)—providing the input to the island during simulation using a generator; and

(d)—directing the providing of the input using at least one test case by providing data and a request that the generator perform a particular simulation on the island without the test case including logic for directly controlling functions of the generator, the snooper, and the checker;

wherein the input is provided to the island using ~~[[a]]the~~ generator including intelligence to provide the input to the island based only upon the data and ~~[[a]]the request provided by the at least one test case to the generator, the request requesting that the generator perform a particular simulation on the island.~~

18. (Currently Amended) The computer-readable medium of claim 17 wherein the instruction for monitoring snooping (a) further includes the instructions for:

(a1)—snooping the interface to obtain the output provided by the island during simulation using ~~[[a]]~~the snooper, the snooper capable of being reused when the island is integrated with a second island.

19. (Currently Amended) The computer-readable medium of claim 17 wherein the instruction for checking ~~(b)~~ further includes instructions for:

~~(b1)~~—checking the output using ~~[[a]]~~the checker to determine whether the output is the desired output, the checker capable of being reused when the island is integrated with a second island.

20. (Currently Amended) The computer-readable medium of claim 17 wherein the input providing instructions ~~step (e)~~ further includes instructions for:

~~(e1)~~—providing the input to the island during simulation using ~~[[a]]~~the generator, the generator capable of being reused when the island is integrated with a second island.

21. (Currently Amended) The computer-readable medium of claim 17 wherein the input providing instructions ~~step (e)~~ further includes instructions for:

~~(e1)~~—providing an input to the island during simulation using ~~[[a]]~~the generator, the generator receiving the output and providing the input based on the output.

22. (Currently Amended) The computer-readable medium of claim 17 wherein the directing instructions ~~(d)~~ further includes the instructions for:

~~(d1)~~—providing data and instructions from the at least one test case to the generator.

23. (Original) The computer-readable medium of claim 17 wherein the interface is an internal interface.